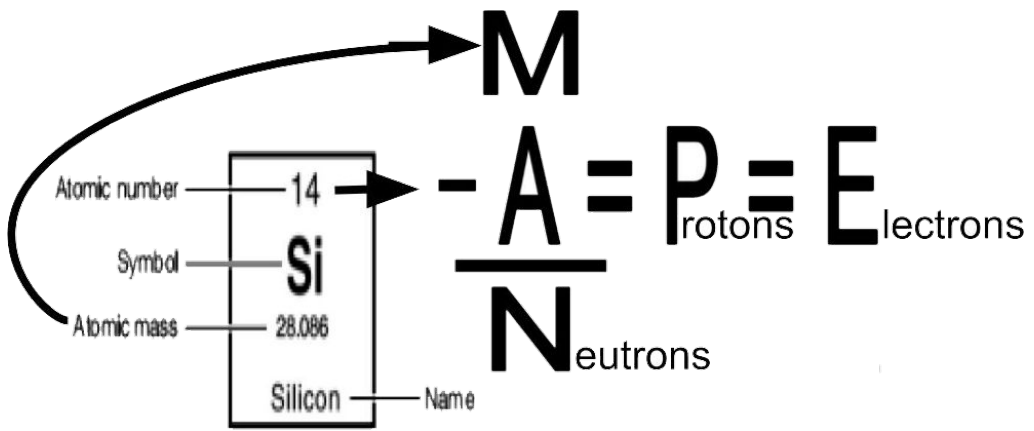
A. P. E. M. A. N.

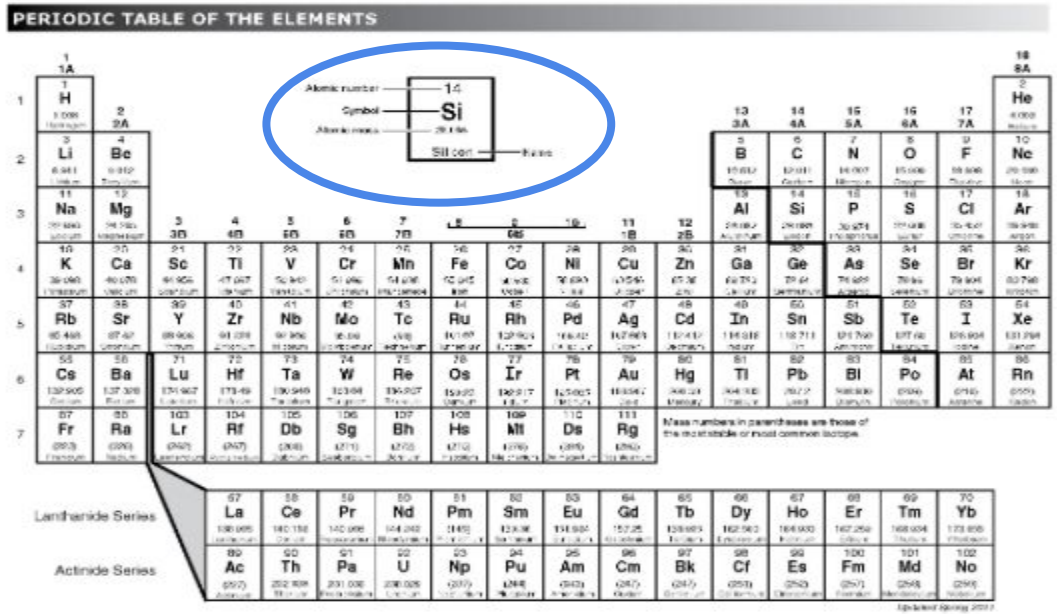
Atomic # = Protons = Electrons

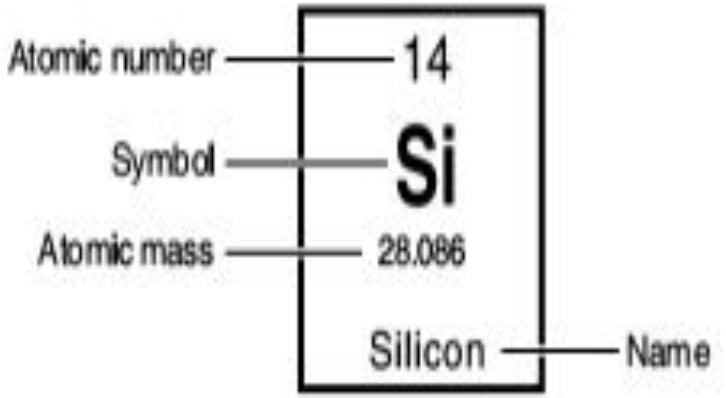
Mass # - Atomic # = Neutrons



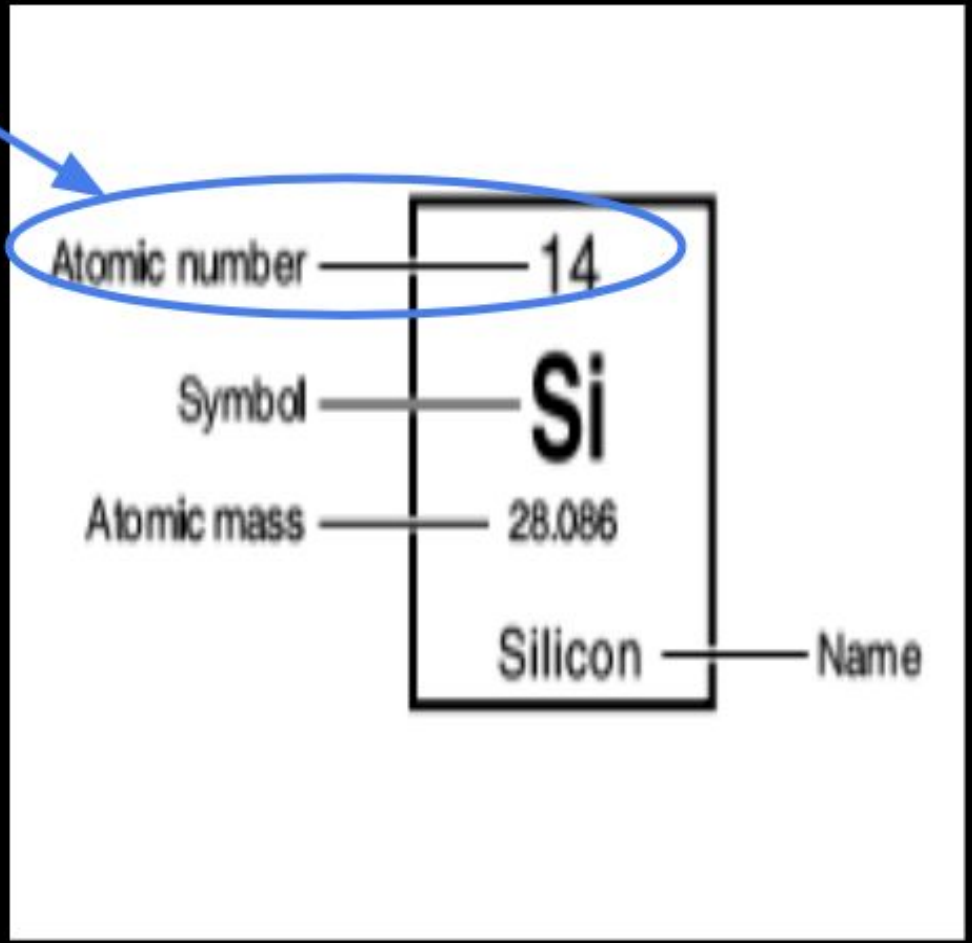
Locate the “key” on periodic table

STAAR GRADE 8 SCIENCE REFERENCE MATERIALS

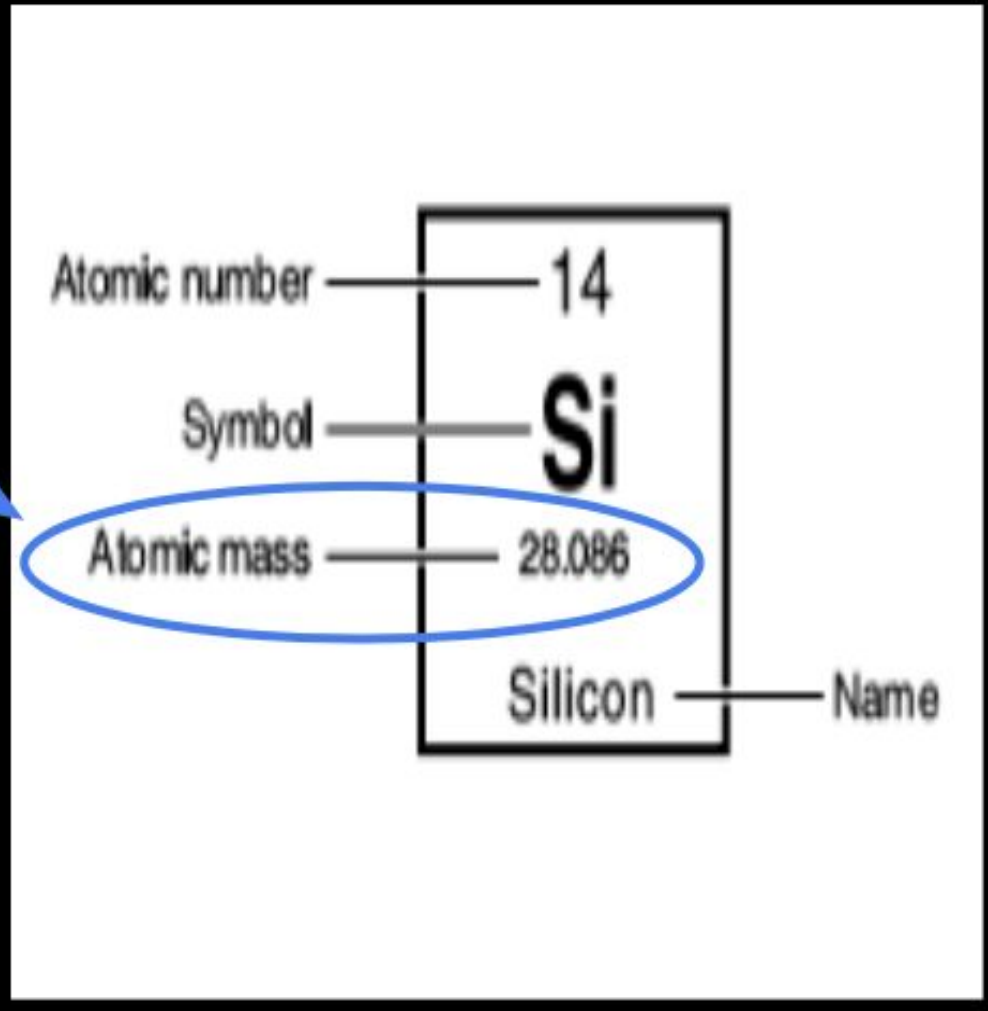




Atomic#



Mass



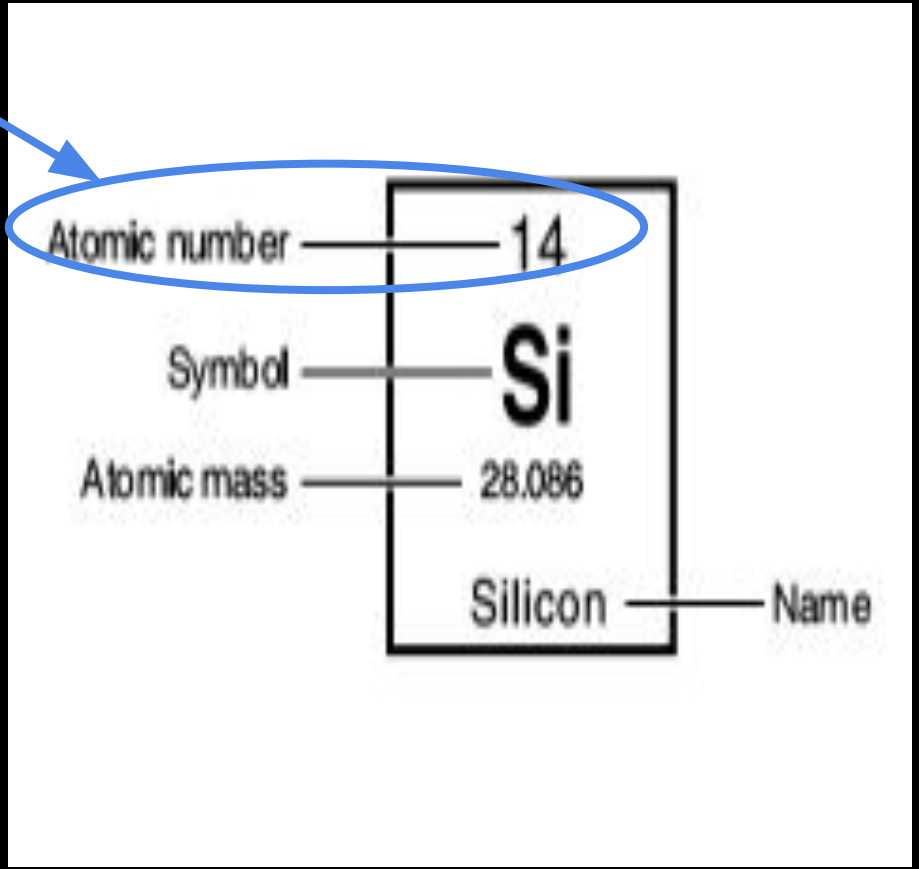
Atomic#

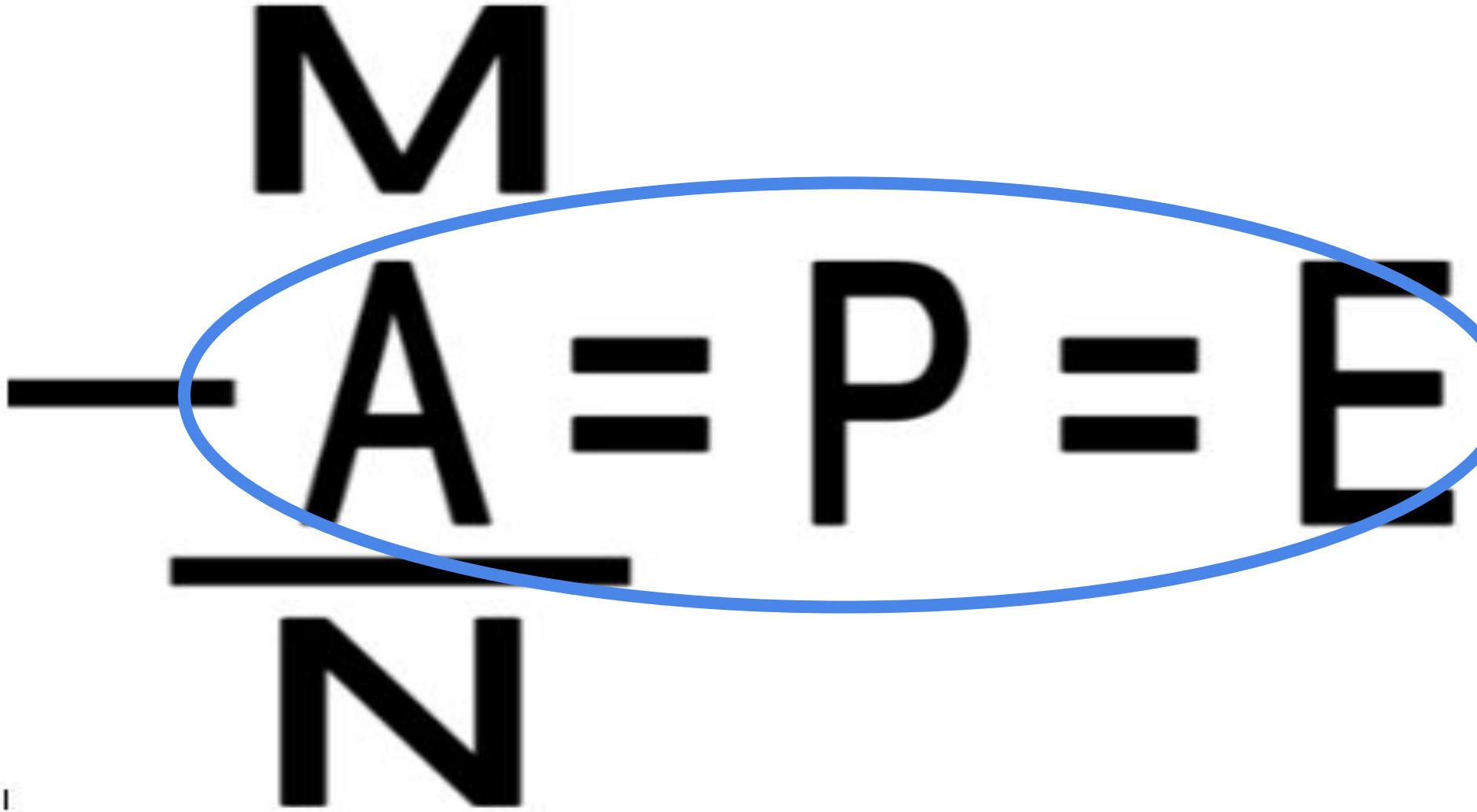
=

#Protons

=

#Electrons



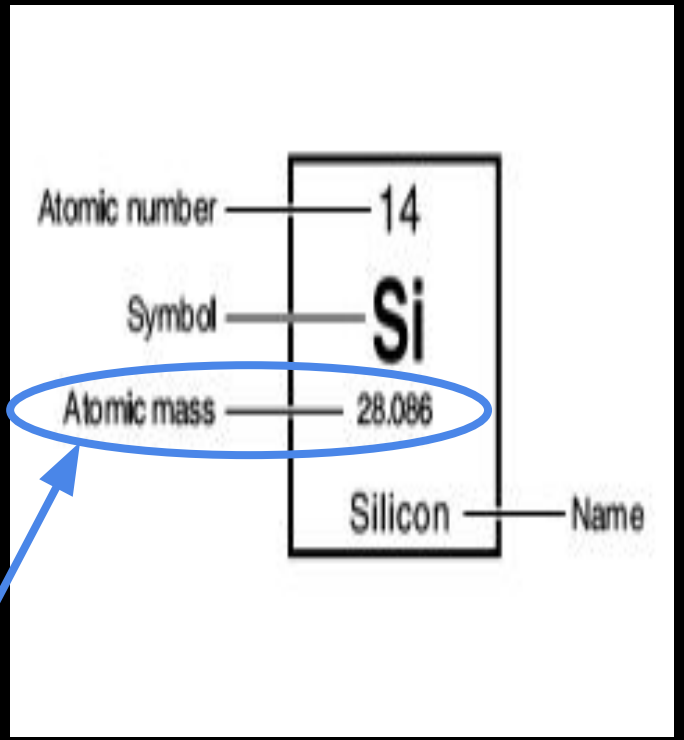

M
A = P = E
N

Protons(+)

+

Neutrons(0)

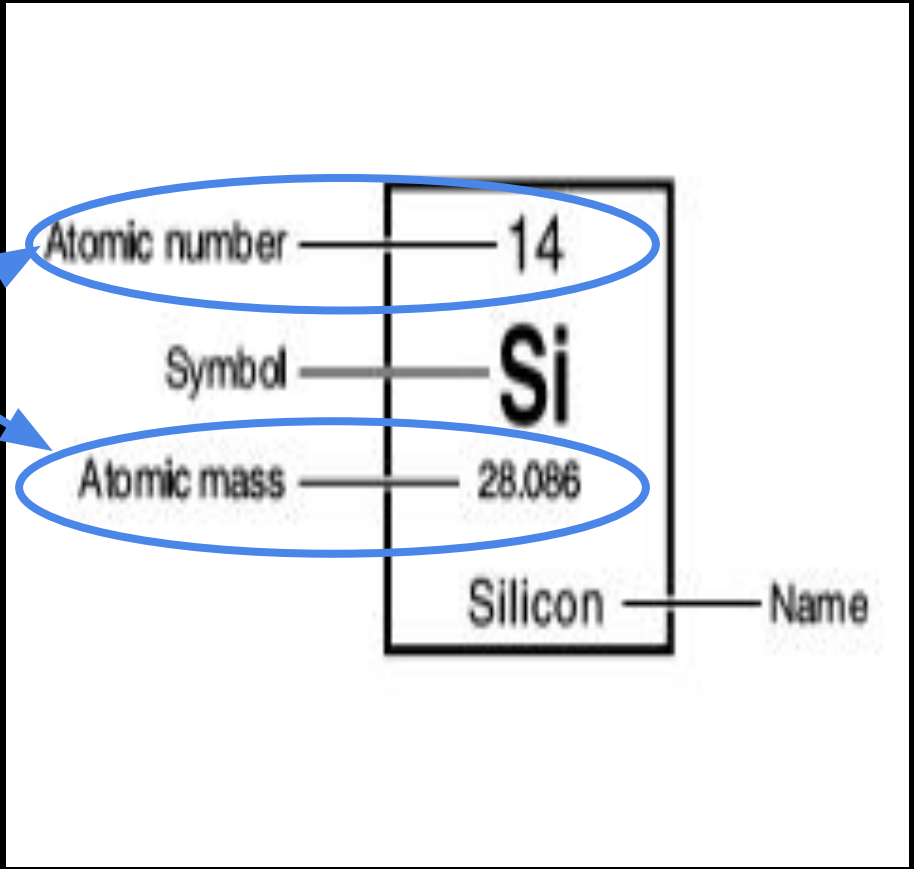
=<u>Atomic Mass</u>

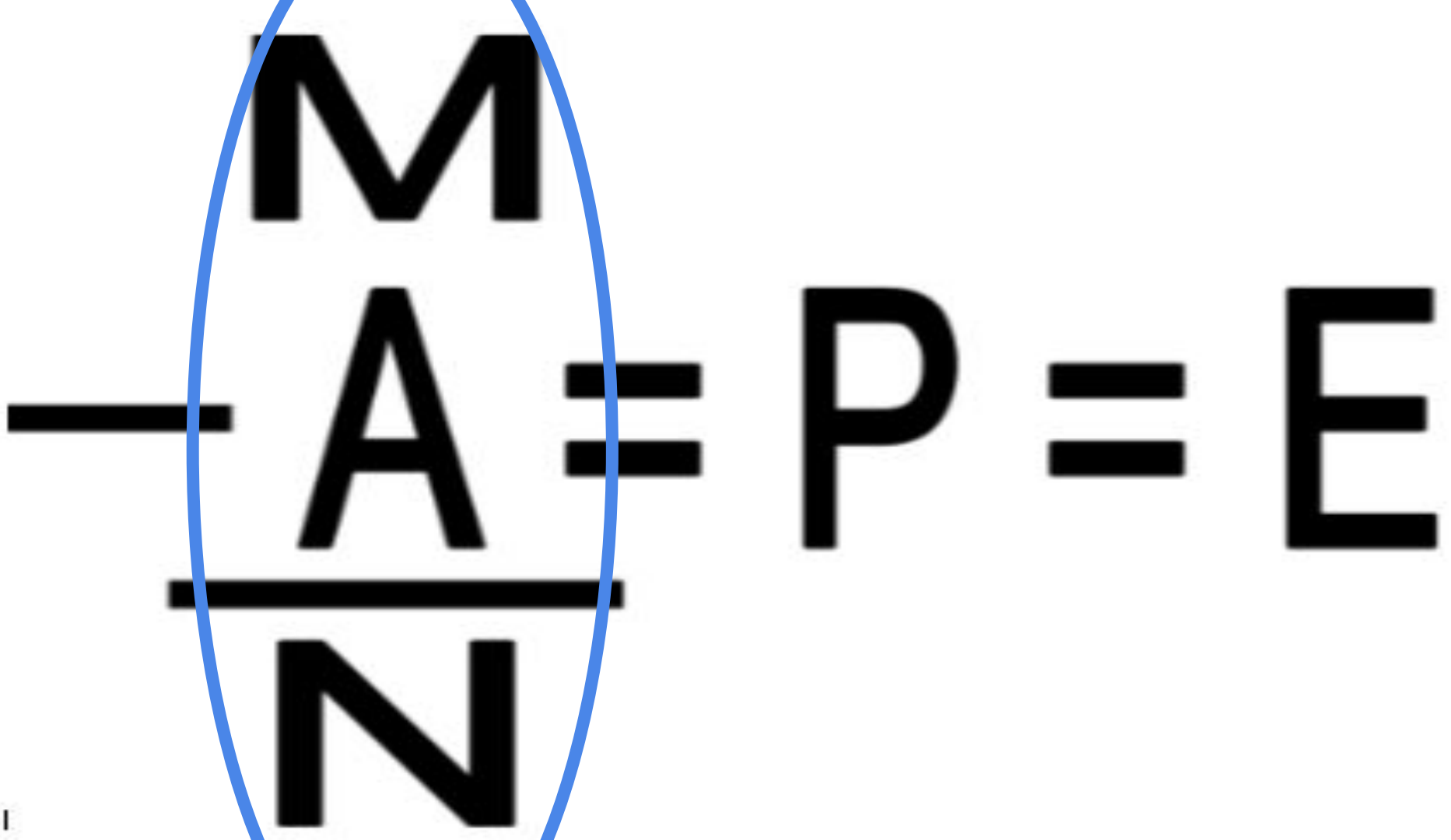


Mass

-Atomic#

#Neutrons



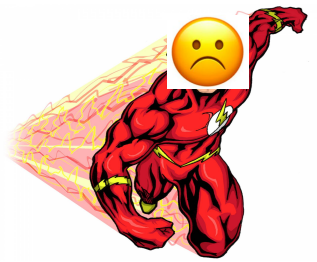

M
A
N
=
P
=
E

If the number in the tenths place (behind the decimal) is 5 or greater, round up!

$22.\underline{3}02 = ?$ $50.\underline{6}84 = ?$

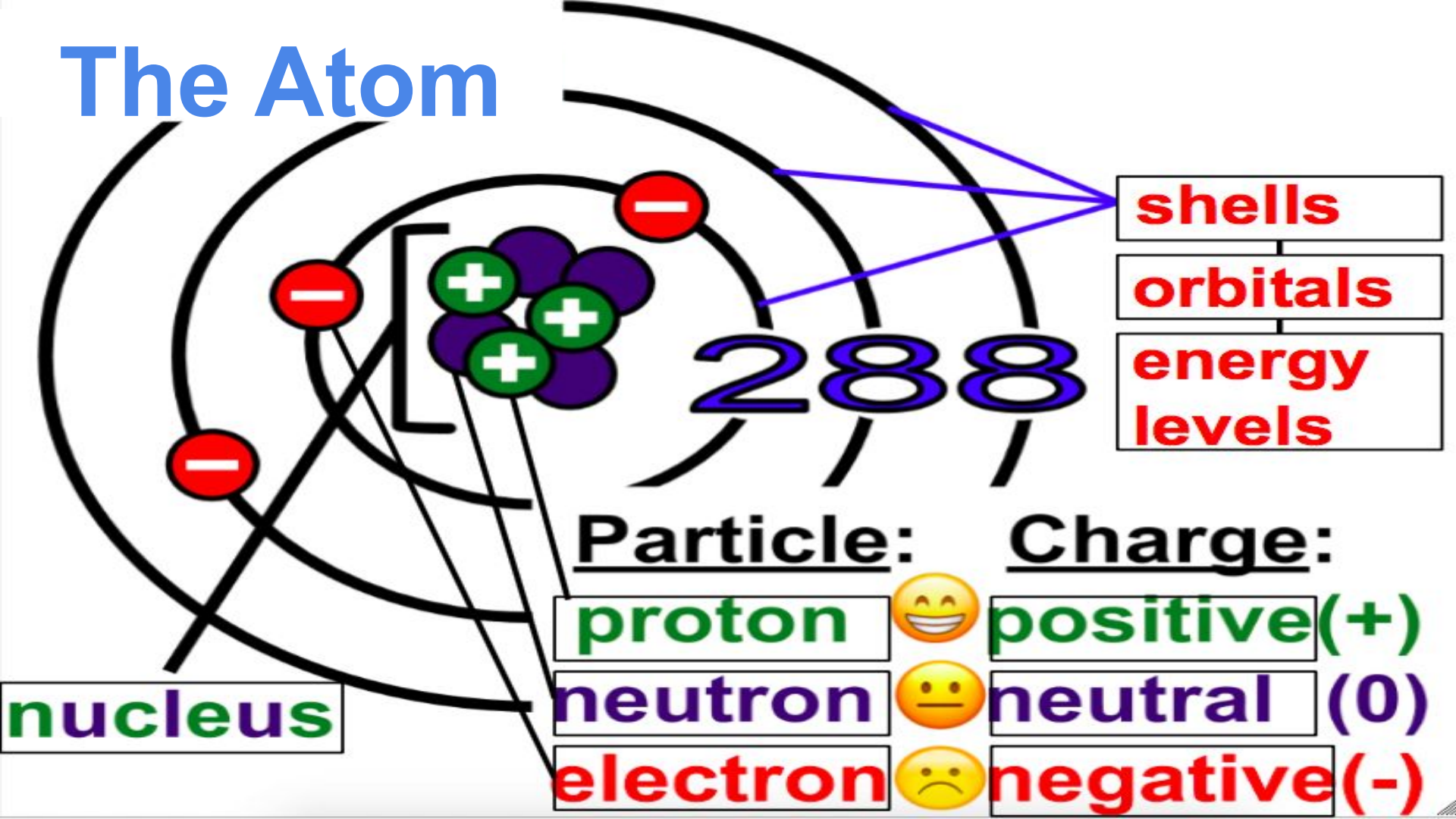
$10.\underline{5}13 = ?$ $11.\underline{2}10 = ?$

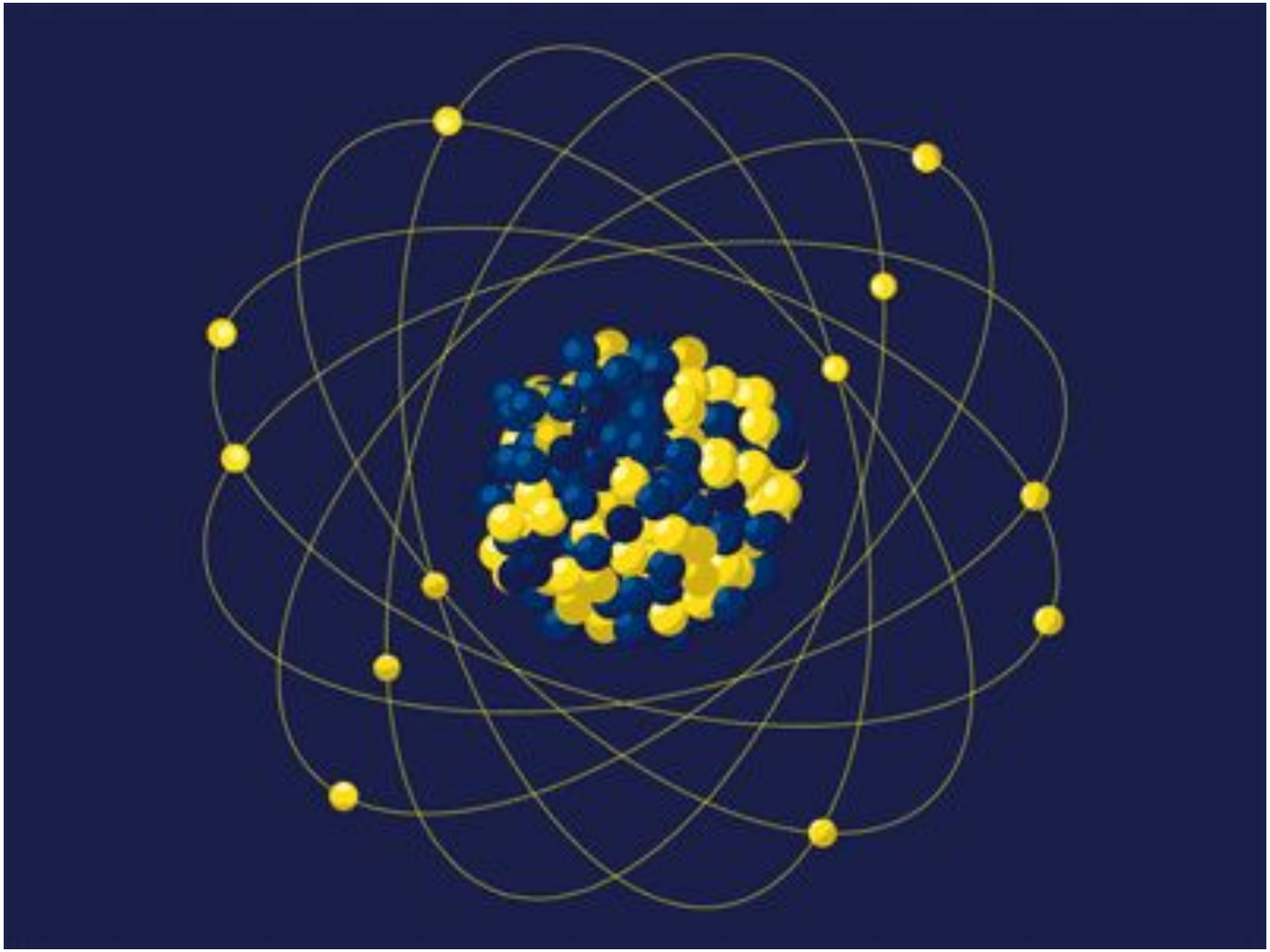
Electron Cloud



-made of levels known as shells, orbitals, or energy levels

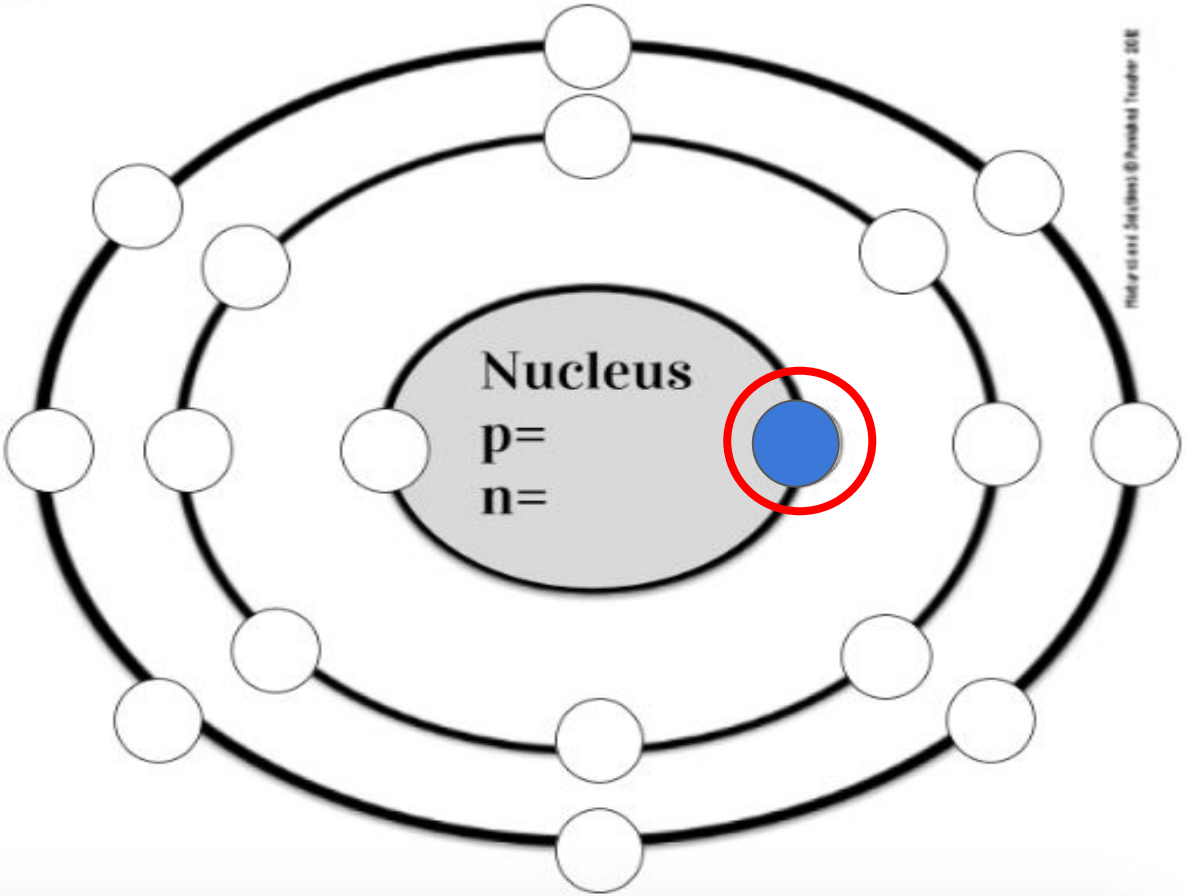
The Atom


shells
orbitals
energy levels
2 8 8
nucleus
Particle:
Charge:
proton
positive (+)
neutron
neutral (0)
electron
negative (-)



The Atom

Element: _____

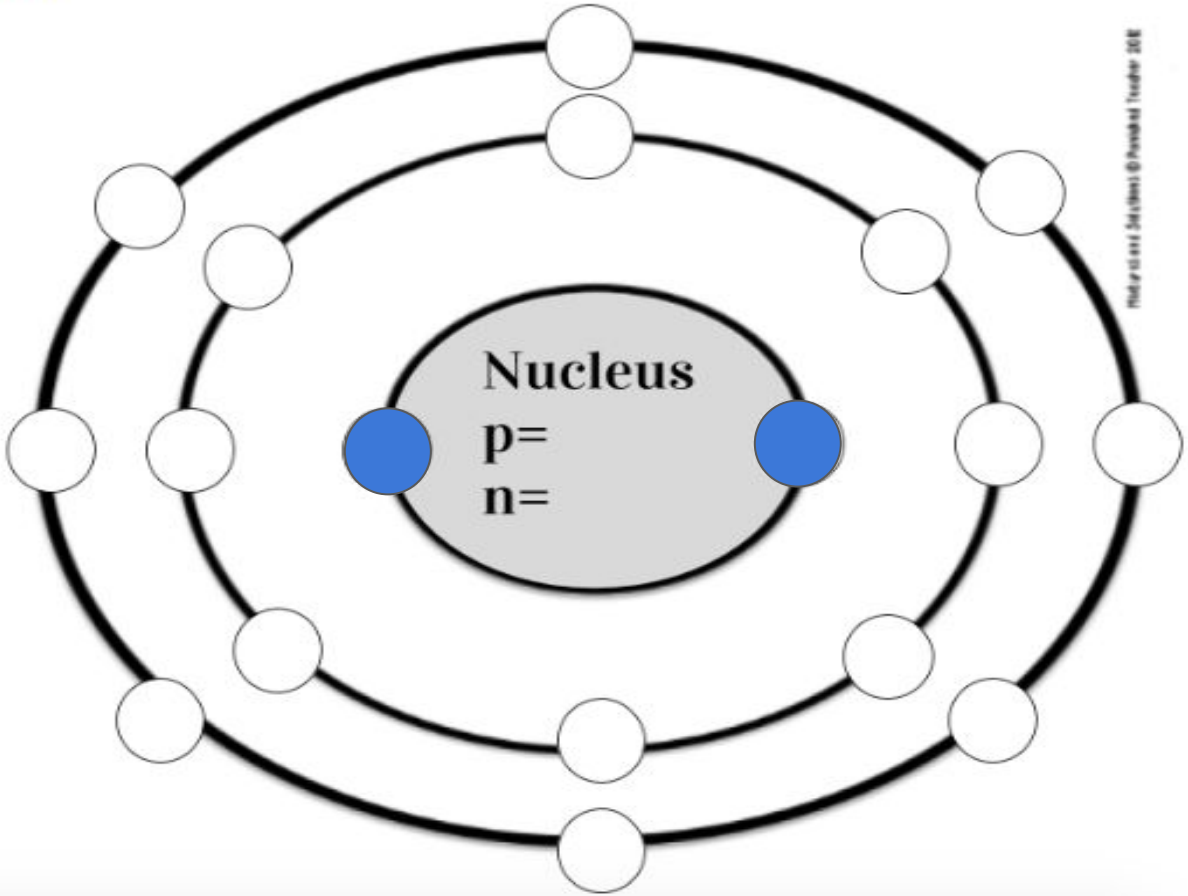


Hydrogen
1
H
1.0078

Atomic #: **Atomic Mass:**	
# Protons (+)	
# Electrons (-)	
# Neutrons (0)	

The Atom

Element: _____

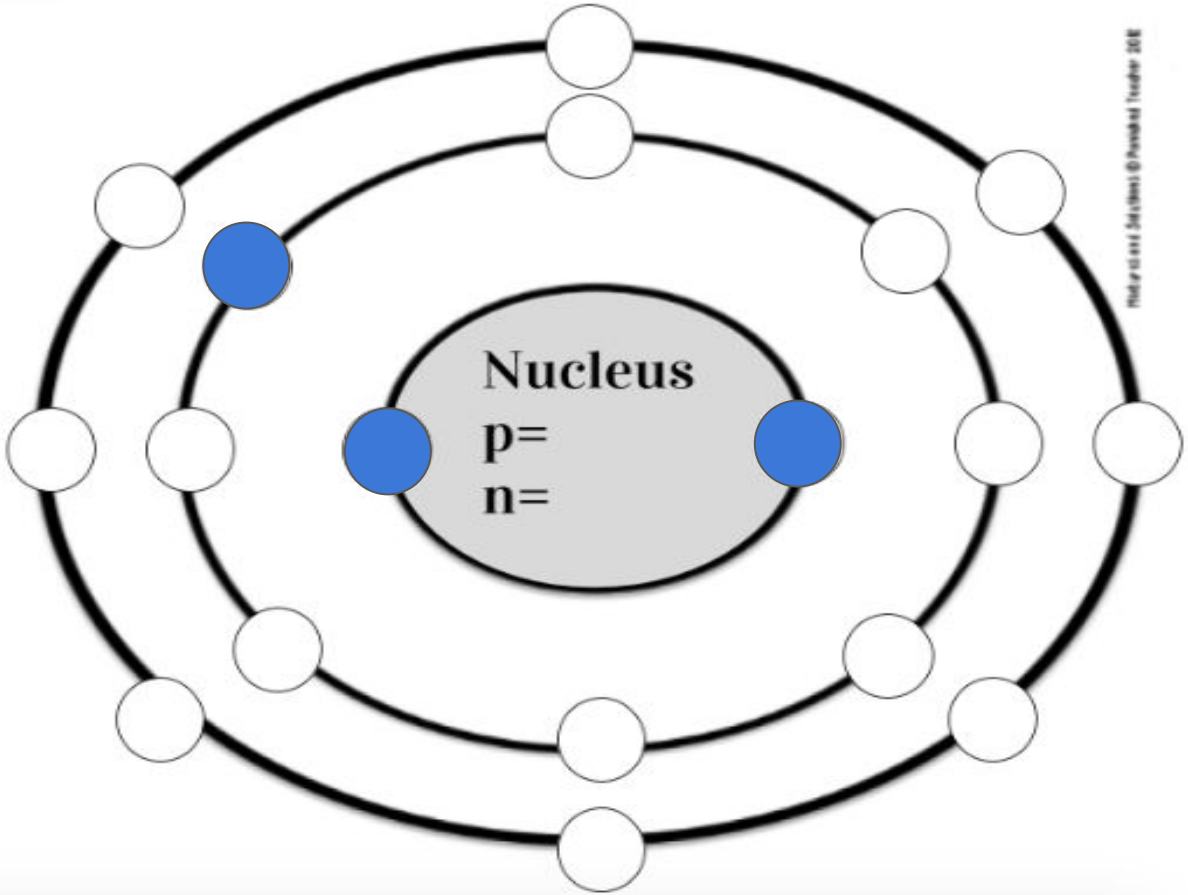


Helium
2
He
4.0026

Atomic #: **Atomic Mass:**	
# Protons (+)	
# Electrons (-)	
# Neutrons (0)	

The Atom

Element: _____

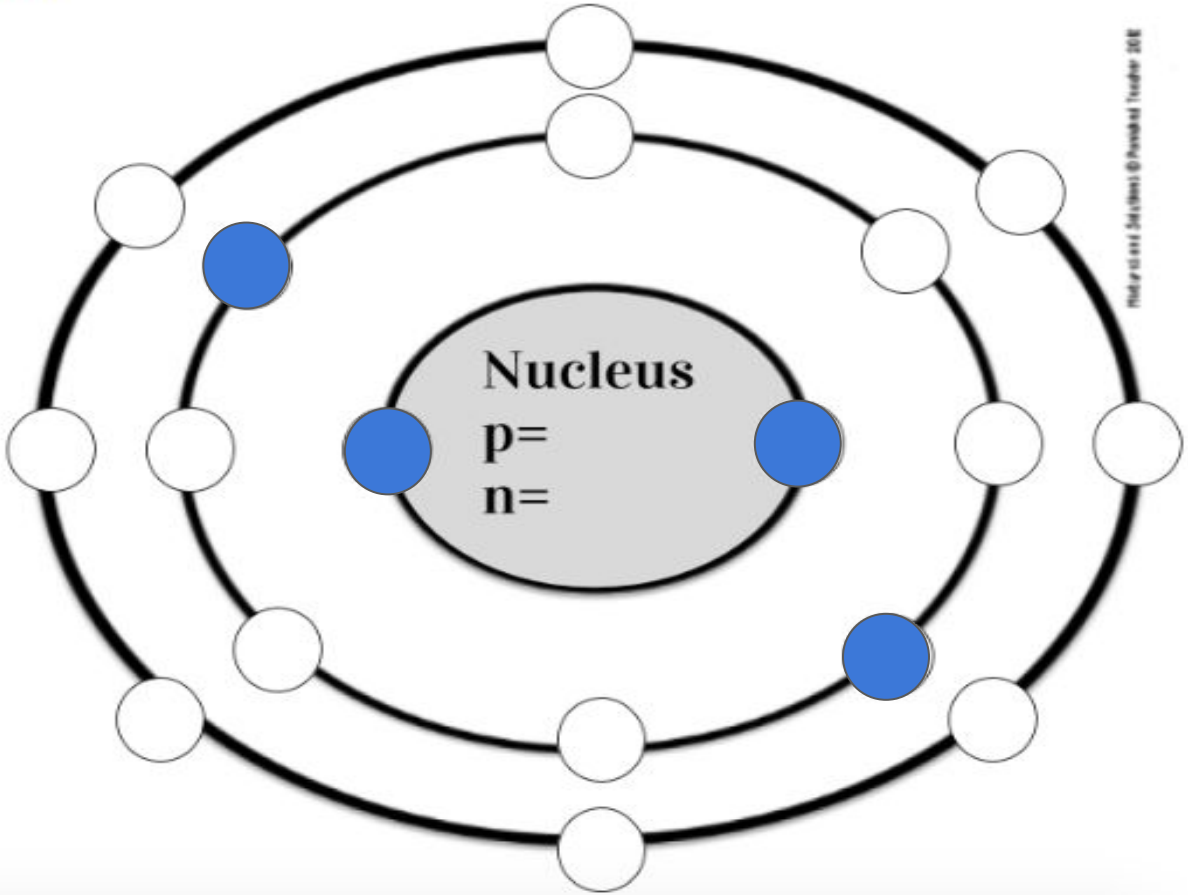


Lithium
3
Li
6.941

Atomic #: **Atomic Mass:**	
# Protons (+)	
# Electrons (-)	
# Neutrons (0)	

The Atom

Element: _____

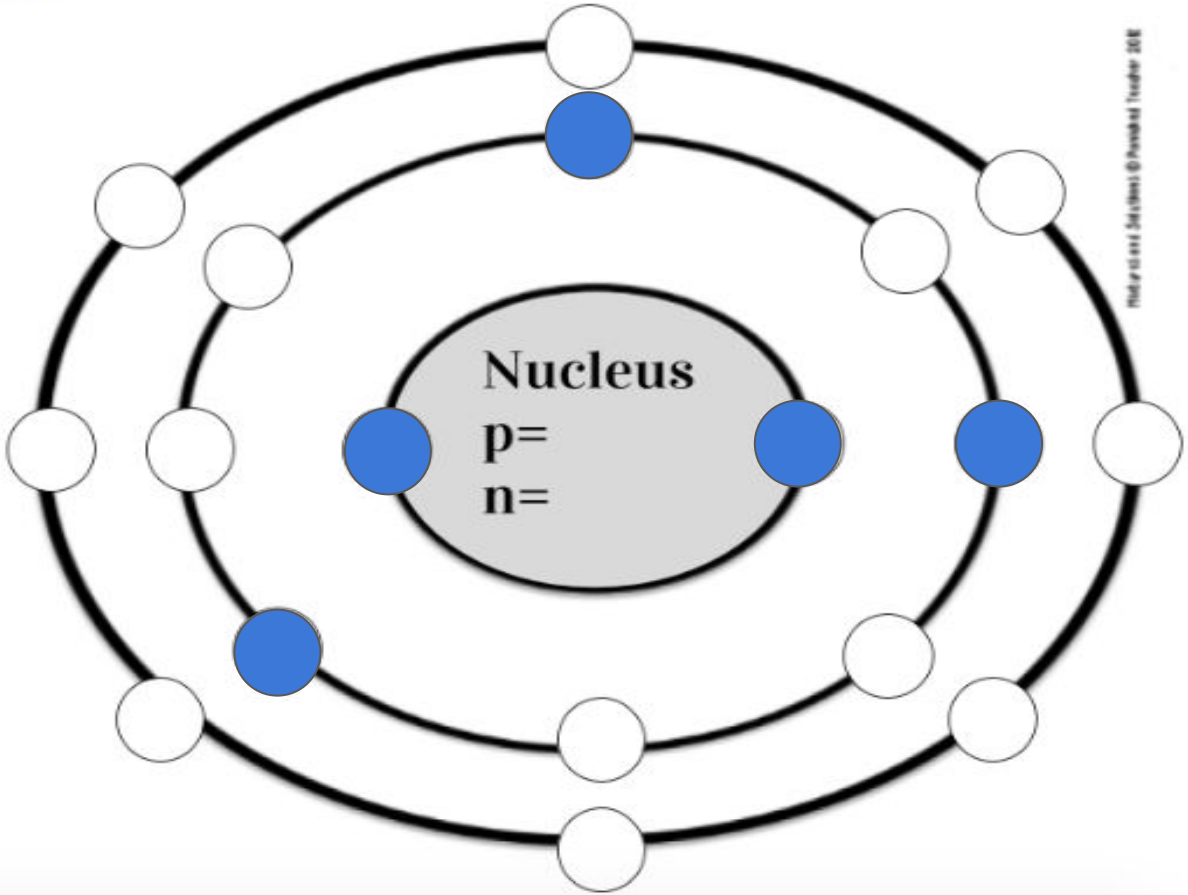


Beryllium
4
Be
9.0122

Atomic #: **Atomic Mass:**	
# Protons (+)	
# Electrons (-)	
# Neutrons (0)	

The Atom

Element: _____

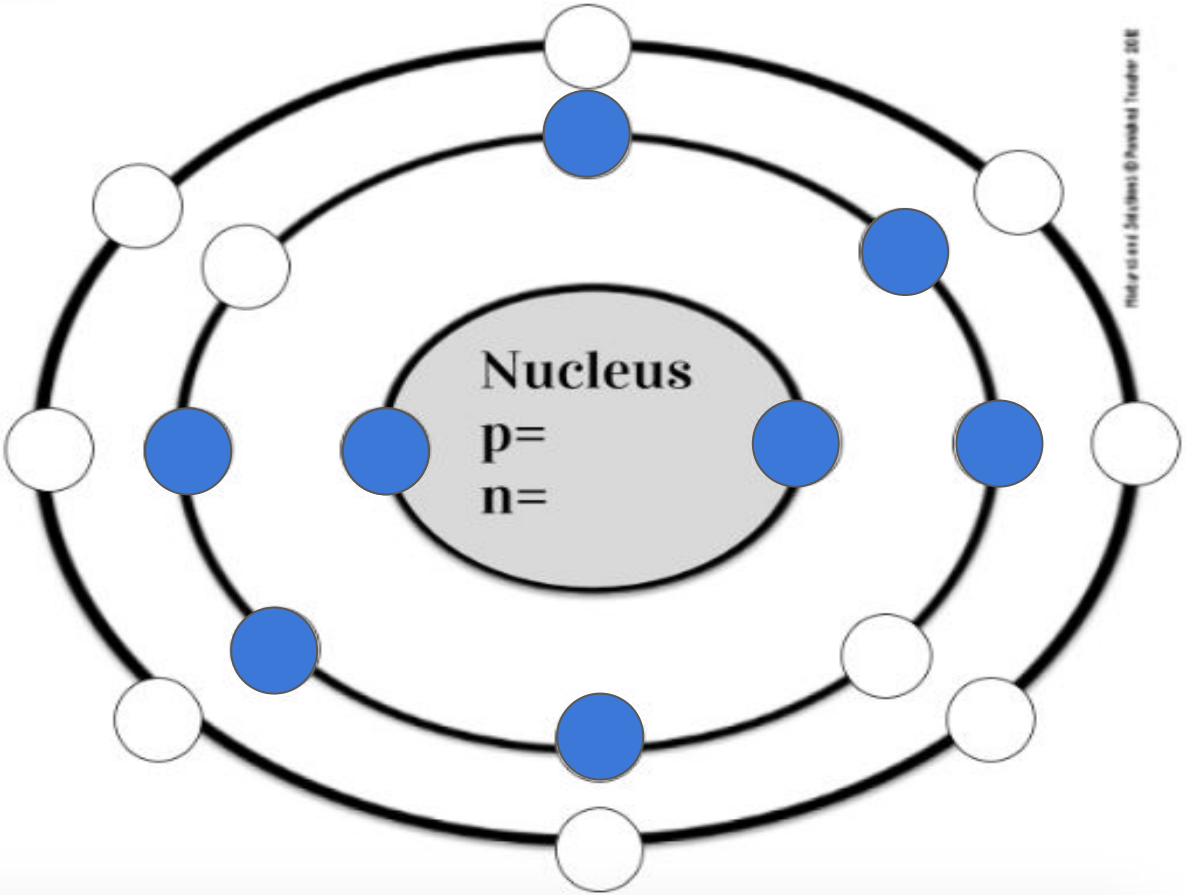


Boron
5
B
10.811

Atomic #: **Atomic Mass:**	
# Protons (+)	
# Electrons (-)	
# Neutrons (0)	

The Atom

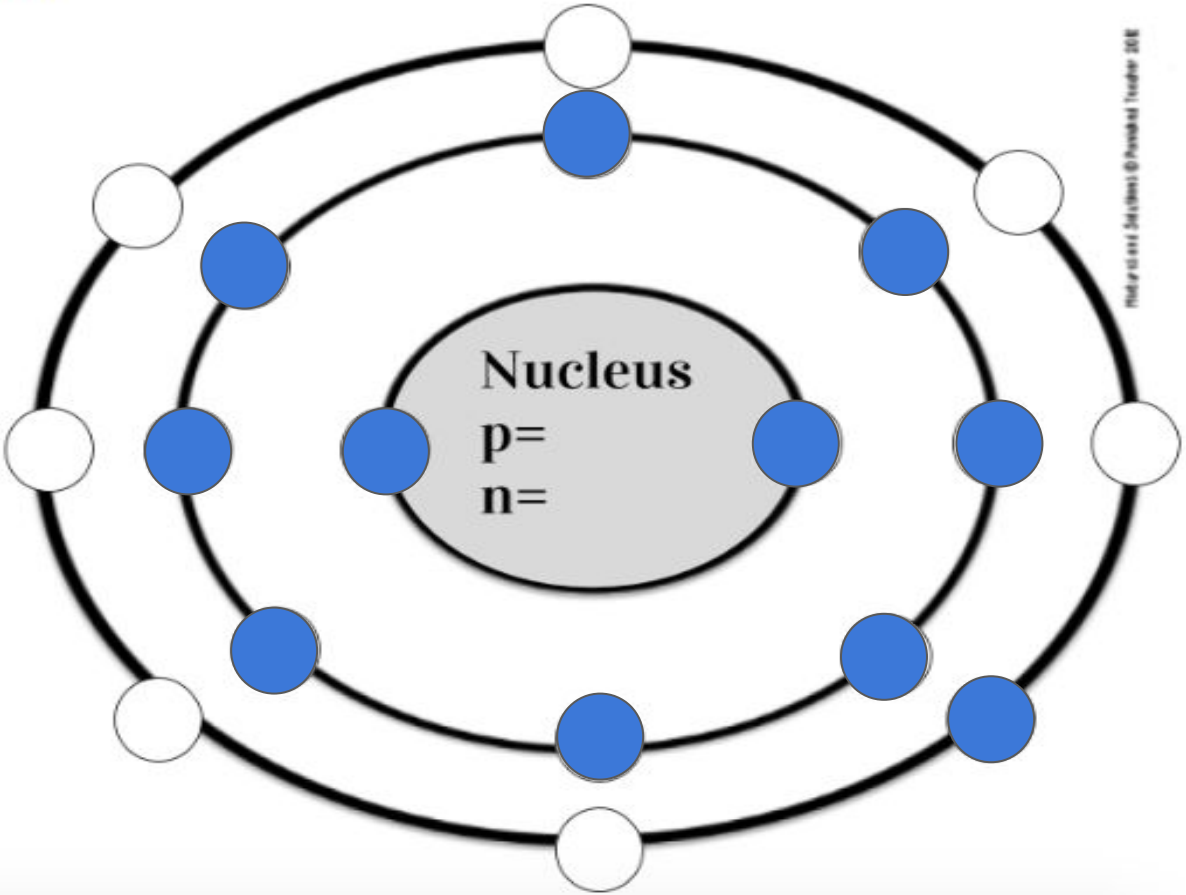
Element: _____



8 O Oxygen 15.9994	
Atomic #: **Atomic Mass:**	
# Protons (+)	
# Electrons (-)	
# Neutrons (0)	

The Atom

Element: _____



Sodium
11
Na
22.990

Atomic #: **Atomic Mass:**	
# Protons (+)	
# Electrons (-)	
# Neutrons (0)	